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NRO REVIEW COMPLETED

19 August 1963

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MEMORANDUM FOR: Deputy Director for Science and Technology

SUBJECT : Daily Activity Report - 19 August 1963

1. Mission Status

a. IDEALIST - The U-2 detachments at Edwards, California, [REDACTED] are on standby status.

(1) The mission scheduled [REDACTED] against the Central China Missile Test Range [REDACTED] was cancelled due to unfavorable weather over the target area. It has not been rescheduled as yet.

[REDACTED]

b. BRASS KNOB - Strategic Air Command missions were flown over Cuba on 16, 17 and 18 August. Results were as follows:

(1) 16 August, estimate 50% target coverage, no reaction.

(2) 17 August, estimate 60% target coverage, no reaction.

(3) 18 August, estimate 40% target coverage, no reaction.

c. CORONA - The CORONA-J satellite remains scheduled for launch on 21 August.

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2. OXCART Aircraft Status

a. Aircraft #121 (J-58 engines) - This aircraft is in the process of having engines #231 and #229 installed and an inlet control on the right side changed. Next flight is scheduled for 19 August.

b. Aircraft #122 (J-58 engines) - Made flight #20 on 16 August for a duration of 1:01 hours. The purpose of the flight was to investigate engine stalls in turns and to extend heat soak time above Mach 2.0. The maximum Mach number for this flight was Mach 2.36 and 75,1500 ft. altitude. Thirty-two minutes of the flight was spent above Mach 2.0. The flight was routine.

c. Aircraft #124 (trainer) - This aircraft made flight #119 on 16 August for a duration of thirty-one minutes. The purpose of this flight was mission pilot training in air refueling and center of gravity travel investigation. The flight was aborted when a number two inverter malfunctioned. This is a problem relating to the J-75 engines used on this aircraft. The next flight of this aircraft is scheduled for 19 August.

d. Aircraft #125 (J-58 engines) -

(1) This aircraft made flight #10 on 16 August for a duration of 1:12 hours. The maximum speed was Mach 2.24 and altitude of 66,000 feet. The purpose was to test Perkin-Elmer Camera #2 and the inertial navigation system. Photographs were taken at Mach 2.2 and 66,000 feet. The inertial navigation system functioned properly during the flight.

(2) This aircraft made a second flight (#11) on 16 August for a duration of forty-two minutes. The purpose was to continue tests of Perkin-Elmer Camera #2 and the inertial navigation system. The camera test was successful. The inertial navigation system was run in the aircraft for continuous 5 1/2 hours (including flights #10 and #11) and had a four mile error at the end of flight #11.

e. Aircrafts #126 and #127 (both J-58 engine equipped) - Pre-flight ground engine runs were being completed on aircrafts #126 and #127 on 16 August in preparation for scheduled flights on 17 August.

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f. Aircraft #128 (J-58 engines) - This aircraft is in final assembly. Estimated readiness for first flight: 2 September.

g. On 16 August the AF-12 #1001 Interceptor was undergoing routine maintenance.

h. On 17 August, Aircraft #126 (J-58 engines) made flight #14 for a duration of fifty-three minutes. The purpose was to shakedown the aircraft after periodic inspection, installation of automatic spike control system, nozzle position indicators and service bulletin maintenance.

i. The following aircrafts are being scheduled for flights on 19 August: #121 (envelope extension mission), #122 (Additional heat soak investigations above Mach 2) and #127 (shakedown flight). Aircraft #125 will complete preflight inspection 19 August for a 20 August flight devoted to the acquisition of [] and intetial navigation system testing. Aircraft #126 will undergo postflight inspection and minor maintenance following a shakedown flight 17 August.

25X1

j. There follows a summary recapitulation of aircraft flying time status:

<u>A/C</u>	<u>DATE OF 1st FLT</u>	<u>TOTAL FLT HRS</u>	<u>MAX FLT MACH NO.</u>	<u>DATE</u>	<u>NO. FLTS</u>
121	4/26/62	77:39	3.06/73*	6/19/63	76
122	1/15/63	17:23	2.6/18	7/17/63	20
123	10/9/62	136:10	2.03/7	10/3/62	79 (last)
124	1/7/63	178:29	1.69/23	2/15/63	119
125	3/8/63	13.09	2.06/6	7/16/63	11
126	6/20/63	20:21	1.47/7	7/24/63	14
127	Scheduled 19 August				
128	Final assembly []		ETC 2 September		

*Altitude: 75,000 feet

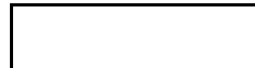
3. NPIC EVALUATION OF TEST RESULTS OF HYCON B-CAMERA #118

a. On 16 August an NPIC evaluation report of flight test film clips of the HYCON B-Camera #118 (with new improved lens) confirmed

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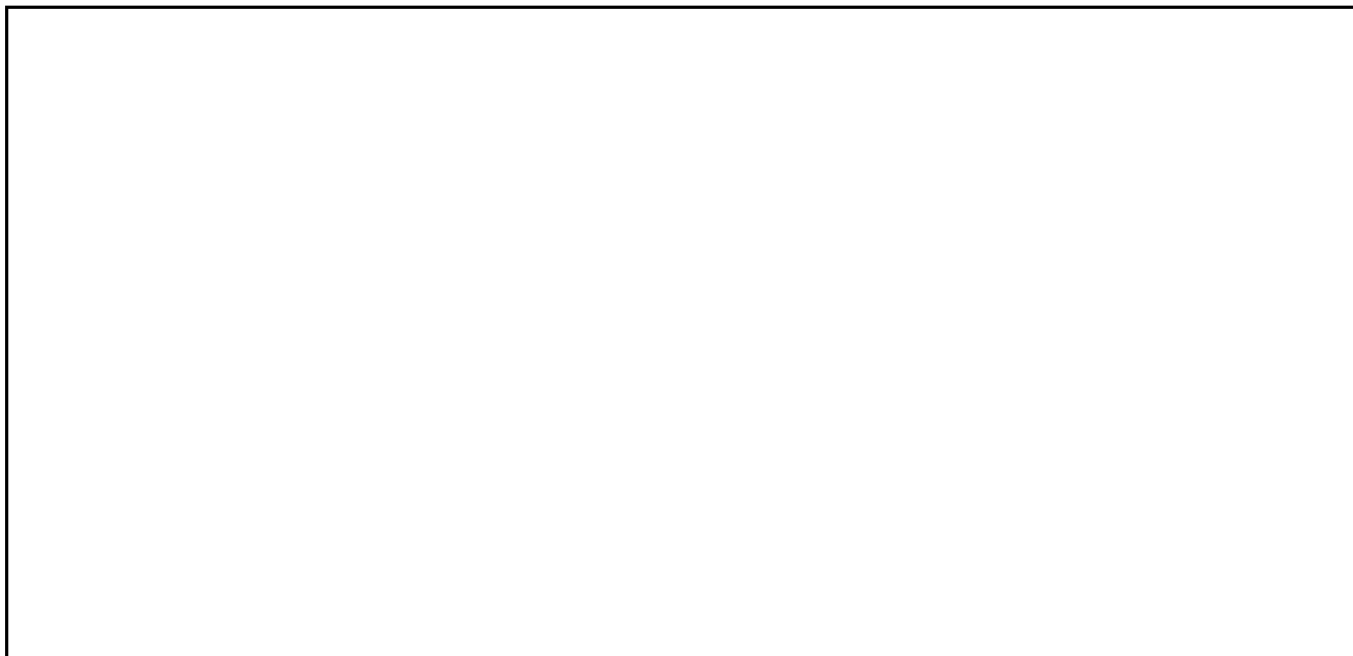


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HYCON estimates that this particular camera results should be about 10% better than the best of the B-Cameras now being used in IDEALIST or BRASS KNOB missions. The second and third improved HYCON B-Cameras, Numbers 119 and 120 are scheduled for delivery 20 August and 5 September.

b. In view of the DCI's interest in improving Cuba mission results, perhaps the DD/S&T would wish to consider deploying HYCON B-Camera #118 for use in Cuban missions.

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